



Run Status

- ❑ Run is coming towards end
 - Will take more data at 4 deg (608, and 1723)
 - Should take ~ 1day of 40 deg; will have to move MRS back to 45/90 for injection energy.
- ❑ Short run for 22 GeV will start tomorrow
 - Nominal 5 shifts ; count on 4
 - Stores will be short ~ 1-1.5 hours.
 - 1. Change timing; Rhic Clock (~15 nsec), and retune all triggers.
 - 2. Choice of settings?

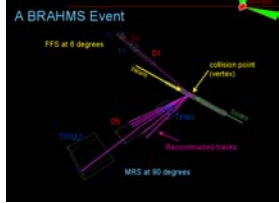


Summary of Runs at Low energy MRS (this for Au.Au) as per 3/21/05

| Angle | Field | Trigger 3 (k) | au.au |
|-------|-------|---------------|-------|
| 90 | A350 | | 173 |
| | B350 | | 250 |
| | A1050 | | 105 |
| | B1050 | | 203 |
| | A700 | 1,760 | |
| | B700 | 1,000 | |
| 45 | A1050 | 8,181 | 1,071 |
| | B1050 | 3,443 | 1,671 |
| 45 | A700 | 1,553 | |
| 40 | A1050 | | 562 |
| | | | |



| Angle | Field | Trigger Cu.Cu | Trigger (auau) |
|-------|-------|---------------|--------------------|
| 3 | A1723 | 320K (FS) | 3,126 (2==BB+FFS) |
| | B1723 | 480K (FS) | 2,279 (2) |
| 4 | A608 | | 1,494 (2) 1021 (6) |
| | B608 | | 1,254 (2) 863(6) |
| | A1219 | 776 /3131 | |
| | B1219 | 497/1459 | |
| | A1723 | 23/236 | |
| | B1723 | | |
| 6 | A861 | 371/1,814 | 1,192 (2) 1,251(6) |
| | B861 | 346/1,445 | 1,538 (2) 1,027(6) |
| 8 | A861 | 107 / 1,000 | 535 (2) |
| | B861 | 233/1,546 | 185 (2) |
| | A1219 | 137/1,711 | 354 (2) 206 (6) |
| | B1219 | 40/363 | 107 (2) 63 (6) (*) |
| | A1723 | 1,089/1,1819 | |
| | B1723 | 101/2,257 | |
| 12 | A430 | 41/264 | |
| | B430 | 51`/287 | |
| 2.3 | A1723 | 372/1,392 | |
| | B1723 | 442/886 | |



22 GeV

□ From #13803

➤ At ZDC ~ 20 got in one hour

- 117 K trigger 1
- 2K tr 2 (8 deg 430B)
- 13K tr 6
- 2K tr3.

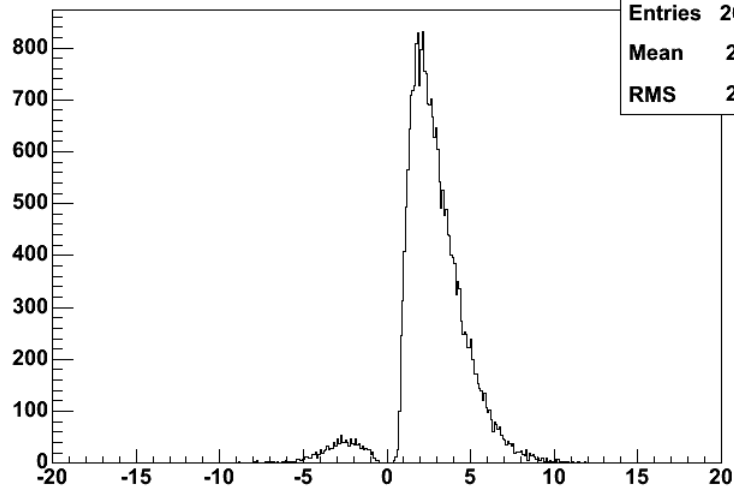
□ 24 hour store (ZDC ~ 100->50)

- ~ 40K tr3 at A/B pol. (45 deg)
- 260K tr6 pol 8deg 430 A/B ($y \sim 2.5$, $y_B \sim 3$)
- Data at 3 deg too I.e. at Ybeam. ?



9K tr 2; 53 K tr6; 92 K tr3 – run 12805 ~ 1 hour

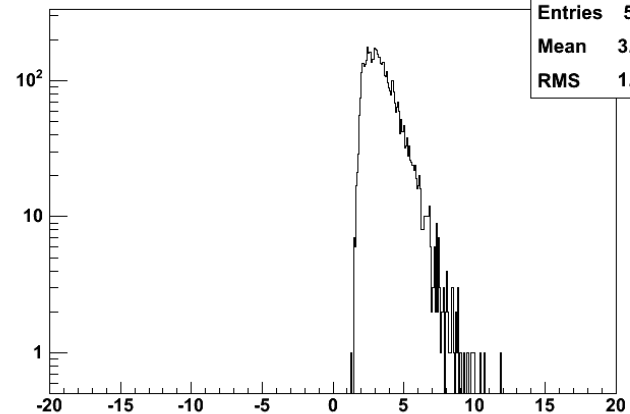
Momentum of accepted FFS tracks



mom

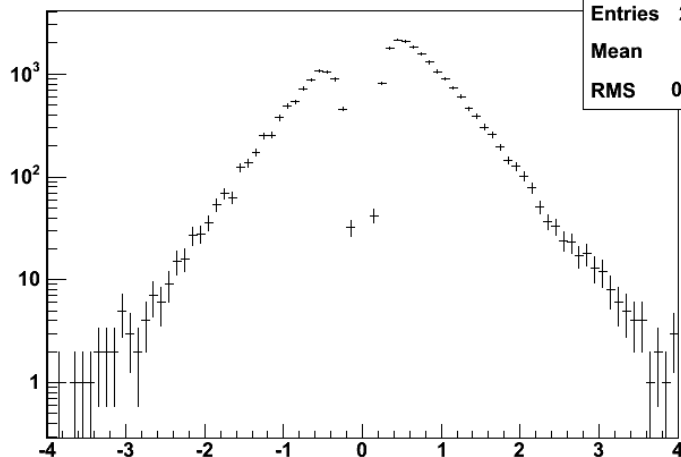
| | |
|---------|-------|
| Entries | 26387 |
| Mean | 2.743 |
| RMS | 2.039 |

Track Momentum average



| | |
|------------------|-------|
| hMomentumAverage | |
| Entries | 5055 |
| Mean | 3.485 |
| RMS | 1.214 |

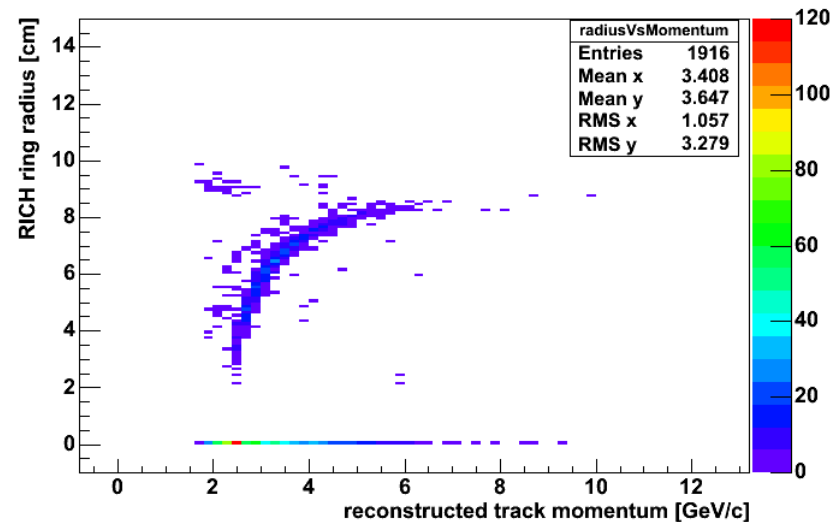
Accepted MRS tracks momentum



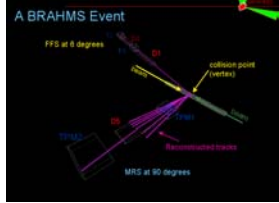
hMomentum

| | |
|---------|--------|
| Entries | 24981 |
| Mean | 0.324 |
| RMS | 0.8557 |

Radius versus momentum



| | |
|------------------|-------|
| radiusVsMomentum | |
| Entries | 1916 |
| Mean x | 3.408 |
| Mean y | 3.647 |
| RMS x | 1.057 |
| RMS y | 3.279 |



Detector Status

- ❑ Found an issue with H2 trigger (slat 14,30) had by mistake been turned off in triggers setup. Reduced data rate; requires correction via acceptance maps.
- ❑ Trigger 4, centrality issue (discussion by Steve)
- ❑ Some runs too long- try to stick to ~ 1 hour.



Preparation for pp

- ☐ CC counters; old+new
- ☐ MRST0
- ✓ RC to 112 nsec bunches.
- ☐ Spin Lumi scalars to split VME crate
 - Setup and check all lumi measures.
- ☐ Add the start/stop of RS (RhicScalers) to DAQ.
- ☐ Get store, pattern, polarization into DB
- ☐ Prepare shift schedule, people
- ☐ Decide on running period (4,6,8 wks?). May be last chance for pol measurements (depending on result e.g K?!, pt dependence, collaboration)



pp – FS data set

| Angle | Field | Trigger |
|-------|----------------|---------|
| 3 | A1723,A2442 | |
| | B1723,B2442 | |
| 4 | A1723,A2442 | |
| | B1723,B 2442 | |
| 8 | A861,1723,2442 | |
| | | |
| 12 | A861 | |
| | B861 | |
| | A1219 | |
| | B1219 | |